AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE OF PAGES 1 | 15

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
0004	07/12/00	351-0-0944	

6. ISSUED BY CODE

NAT.INST.OF STANDARDS & TECHNOLOGY
ACQUISITION & ASSISTANCE DIVISION
BUILDING 301, ROOM B117
100 BUREAU DRIVE, STOP 3572
GAITHERSBURG, MD 20899-3572

7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP code)

TO ALL OFFERORS

CODE FACILITY CODE

X

9A. AMENDMENT OF SOLICITATION NO.
52SBNB0C1045

9B. DATED (SEE ITEM 11)
05/19/00

10A. MODIFICATION OF CONTRACT/ORDER NO.

10B. DATED (SEE ITEM 13)

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☒ is not extended. Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

See Continuation Sheet(s)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) PAULINE E. MALLGRAVE CONTRACTING OFFICER	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY Pauline E. Mallgrave (Signature of Contracting Officer)	16C. DATE SIGNED 7-12-00

A. Part III, Section J.2 LIST OF ATTACHMENTS, Attachment One - Specification is amended as follows:

1. Volume 1, Table of Contents change title of Section 02711 to UNDERGROUND GAS AND AIR PIPING.

2. Volume 1, Table of Contents delete Section 13100 – Laser Protection

3. Volume 1, Division 2, Section No. 02711 – Underground Gas Piping change section title to UNDERGROUND GAS AND AIR PIPING.

4. Volume 1, Division 7, Section 07413 - Preformed Wall and Soffit Panels add Paragraph 2.01.A.1.b.(4) to read as follows:

   (4) Benchmark Architectural Products, Inc.

5. Volume 1, Division 8, Section 08000 - Door, Frame and Hardware Schedule Add the following to page 08000-82: Sheet: A3.2-04.1

   ME3S02, STAIR NO. 21, HW-55, PR 900, 2076, F, AL, PNT, 00, --, AL, PNT, --

6. Volume 2, Division 9, Section 09410 - Portland Cement Terrazzo and Stair Treads delete Paragraph 2.01.F.1.

7. Volume 2, Division 9, Section No. 09515 – Suspended Metal Ceilings add Paragraph 2.01A.1.b.(3) to read as follows:

   (3) MBI Products.

8. Volume 2, Division 9, Section No. 09515 – Suspended Metal Ceilings add Paragraph 2.01.A.2.b.(2) to read as follows:

   (2) Gordon Inc.

9. Volume 2, Division 9, Section No. 09515 – Suspended Metal Ceilings revise Paragraph 2.01.E.3. to read as follows:

   3. Factory preformed, pre-finished, vertically curved 38 mm x 24 mm steel or aluminum main tees with cross tees forming a 600 x 600 vaulted ceiling. Tees shall have a 12 mm x 8 mm bulb or factory corrugated top.

10. Volume 2, Division 10, Section No. 10250 – Service Module System add Paragraphs 2.01.A.1.a.(4) through 2.01.A.1.a.(6) to read as follows:

(4) Unispec, Ancon.
(5) Watrus, American Specialties.
(6) Metal Sales and Services.

11. Volume 2, Division 10, Section No. 10250 – Service Module System revise Paragraph 2.01.A.1.b.(1) to read as follows:

(1) Corr-Fac.

12. Volume 2, Division 10, Section No. 10250 – Service Module System delete Paragraph 2.01.A.2.b.(2) and replace with the following:

(2) Filtrine.
(3) Halsey Taylor.
(4) Haws.

13. Volume 2, Division 10, Section No. 10520 – Fire Protection Specialties delete Paragraphs 1.01 through 3.02.B. and replace with the following:

1.01 DESCRIPTION

A. Fire extinguishers and wall brackets are not in the Contract.

B. Fire extinguishers and wall brackets for fire extinguisher cabinets specified in Section 10250 and for other locations indicated will be furnished and installed by the Government.

PART 2 – PRODUCTS – NOT USED
PART 3 – EXECUTION – NOT USED

14. Volume 2, Division 11, Section No. 11601 – Laboratory Casework and Furnishings revise Paragraph 2.10.A.7. to read as follows:

7. Color: To be the Manufacturer’s standard black color unless otherwise noted on plans.

15. Volume 2, Division 11, Section No. 11610 – Laboratory Fume Hoods revise Paragraph 2.03.G.1. to read as follows:

    1. Molded epoxy resin: For hoods with Poly resin liners. Color to be the manufacturers standard black color unless otherwise noted on plans. Work surface as manufactured by the Durcon Company, Inc.; Prime Industries; or Laboratory Tops, Inc. 30 mm thick surface, dished 6 mm to contain spills.

16. Volume 2, Division 13, Section No. 13064 – Cleanroom Flow Through Grid System revise Paragraph 2.01.A.1.a.(1) to read as follows:

    (1) Gordon Inc.

17. Volume 2, Division 13, Section No. 13064 – Cleanroom Flow Through Grid System delete Paragraphs 2.01.A.1.a(2)

18. Volume 2, Division 13, Section No. 13064 – Cleanroom Flow Through Grid System add Paragraphs 2.01.A.1.b. through 2.01.A.1.b.(4) to read as follows:

    b. Optional:
    (1) Laminaire.
    (2) Lepco.
    (3) Meisser & Wurst.
    (4) Texas Technology.

19. Volume 2, Division 13, Section No. 13100 – Laser Protection delete Section 13100 in its entirety.

20. Volume 2, Division 14, Section No. 14300 – Hoists, Trolleys, Monorails and Cranes revise "HOIST AND CRANE SCHEDULE" PAGE 14300-12 as follows:

    Delete references to hoists H-3, H-4, H-5 and H-6 in their entirety.

21. Volume 3, Division 15, Section 15250– Pipe, Duct and Equipment Insulation revise Paragraph 3.04.B.2. to read as follows:

    2. Supply air and make-up air ductwork exposed (rectangular):

22. Volume 3, Division 15, Section No. 15440 – Plumbing Fixtures add Paragraph 2.01.A.2.b(5) to read as follows:

(5) Guardian Equipment Company.

23. Volume 3, Division 15, Section 15451 - Plumbing Pumps add Paragraph 2.01.A.2.b.(3):

(3) Armstrong Pumps.

24. Volume 3, Division 15, Section No. 15451 – Plumbing Pumps add Paragraphs 2.01.A.3.b.(3) through 2.01.A.3.b.(6) to read as follows:

(3) Zoeller.
(4) Alyan.
(5) Homa.
(6) Armstrong Pumps

25. Volume 3, Division 15, Section No. 15485 – High Purity Water Piping System add Paragraph 2.01.A.2.b.(7) to read as follows:

(7) Therm-o-Tech.

26. Volume 3, Division 15, Section No. 15485 – High Purity Water Piping System add Paragraph 2.01.A.3.b.(7) to read as follows:

(7) EcoWater.

27. Volume 3, Division 15, Section No. 15485 – High Purity Water Piping System add Paragraph 2.01.A.4.b.(7) to read as follows:

(7) HydroMax.

28. Volume 3, Division 15, Section No. 15485 – High Purity Water Piping System add Paragraph 2.01.A.5.b.(7) to read as follows:

(7) HydroMax.

29. Volume 3, Division 15, Section No. 15485 – High Purity Water Piping System add Paragraph 2.01.A.7.b.(4) to read as follows:

(4) Aurora Pump Company.

30. Volume 3, Division 15, Section No. 15485 – High Purity Water Piping System add Paragraph 2.01.A.7.b.(5) to read as follows:

(5) Grundfos.

31. Volume 3, Division 15, Section No. 15485 – High Purity Water Piping System add Paragraph 2.01.A.10.b.(7) to read as follows:

(7) GF Signet.

32. Volume 3, Division 15, Section No. 15510 – Hydronic Piping Systems add Paragraph 2.01.A.3.b.(4) to read as follows:

(4) Wheatly.

33. Volume 3, Division 15, Section No. 15510 – Hydronic Piping Systems add Paragraph 2.01.A.5.b.(4) to read as follows:

(4) Wheatly.

34. Volume 3, Division 15, Section No. 15510 – Hydronic Piping Systems

add Paragraph 2.01.A.8.b.(6) to read as follows:

(6) Wheatly.

35. Volume 3, Division 15, Section No. 15510 – Hydronic Piping Systems add Paragraph 2.01.A.11.b.(3) to read as follows:

(3) Wheatly.

36. Volume 3, Division 15, Section No. 15520 – Steam Distribution System add Paragraph 2.01.A.3.b.(6) to read as follows:

(6) Alyan.

37. Volume 3, Division 15, Section No. 15540 – HVAC Pumps
add Paragraphs 2.01.A.1.b.(4) through 2.01.A.1.b.(6) to read as follows:

(4) Weinman.
(5) Thrush.
(6) Armstrong Pumps.

38. Volume 3, Division 15, Section No. 15540 – HVAC Pumps
add Paragraph 2.01.A.2.b.(4) through 2.01.A.2.b.(5) to read as follows:

(4) Weinman.
(5) Armstrong Pumps.

39. Volume 3, Division 15, Section No. 15540 – HVAC Pumps
add Paragraphs 2.01.A.4.b.(4) through 2.01.A.4.b.(6) to read as follows:

(4) Weinman.
(5) Thrush.
(6) Armstrong Pumps.

40. Volume 3, Division 15, Section No. 15755 – Heat Exchangers and Converters
add Paragraph 2.01.A.1.a.(6) to read as follows:

(6) Thrush.

41. Volume 3, Division 15, Section No. 15815 – Unfired (Clean) Steam Generators
add Paragraph 2.01.A.1.b.(2) to read as follows:

(2) Adamson Co.

42. Volume 3, Division 15, Section 15830 - Hydronic Heating and Cooling Terminal Units revise Paragraph 2.01.A.2 to read as follows:

2. Fan coil units
   a. Base
      (1) Trane.
   b. Optional
      (1) Carrier.
      (2) Dunham-Bush.
      (3) McQuay.
      (4) Airtherm.
      (5) International.
      (6) York International.

43. Volume 3, Division 15, Section No. 15858 – Custom Packaged Air Handling Unit revise first sentence of Paragraph 2.06.N. to read as follows:

For fans with motors 22.4 kW and larger, provide a monorail system for fan motor removal.

44. Volume 3, Division 15, Section 15870 - Exhaust and Ventilating Fans add Paragraph 2.01.A.2.b.(4) to read as follows:

(4) Bayley.

45. Volume 3, Division 15, Section 15870 - Exhaust and Ventilating Fans add Paragraph 2.01.A.4.b.(9) to read as follows:

(9) Jenn Fan.

46. Volume 3, Division 15, Section No. 15930 – Air Terminal Units add Paragraph 2.01.A.1.b.(5)

(5) Enviro-Tec.

47. Volume 4, Division 16, Section No. 16013 – Wiring Equipment Furnished By Others revise Paragraph 2.09.C. to read as follows:

C. Connect enclosure grounding stud to instrument ground bus with #6 ground in 15 mm C.

48. Volume 4, Division 16, Section 16465 - Bus Duct revise Paragraph 2.02.D. as follows:

D. Rating: Design bus bar assembly to withstand 6 cycle short circuit stresses of 150,000 RMS amperes symmetrical for feeder bus duct and 85,000 RMS amperes symmetrical for plug-in bus duct, or higher when indicated.

49. Volume 4, Division 16, Section No. 16512 – Low Voltage Lighting Control and Dimming System add Paragraph 2.01.A.1.b.(4) through 2.01.A.1.b.(5) to read as follows:

(4) Lehigh.
(5) ILC.

50. Volume 5 – Appendix-Electrical Schedules
revise Distribution Panelboard DP6-3-SS/61-1 to read as follows:

1. Circuit 2, change load per phase from 62084 to 104684. Change circuit breaker amps from 400 to 600.
2. Circuit 5, change P-4A to space. Delete load, amps and poles.
3. Circuit 16, change P-4B to space. Delete load, amps and poles.

B. Part III, Section J.2 LIST OF ATTACHMENTS, Attachment Two - Drawings is amended as follows:

1. Sheet No.'s C1-02, C3-01, C4-01, C5-01, C7-02, C8-02, C8-03, C8-04 and C8-05

Delete Sheets No. C1-02, C3-01, C4-01, C5-01, C7-02, C8-02, C8-03, C8-04 and C8-05 in their entirety, and replace with attached Sheets No. C1-02, C3-01, C4-01, C5-01, C7-02, C8-02, C8-03, C8-04 and C8-05 (dated 07/05/00).

2. Sheet No. C6-01 – Landscape Plan AML Site (Option #9)
revise Landscape Plan as follows:

Change "LB/81" to "LB/324" at each location where it appears.
Change "RB/81" to "RB/324" at each location where it appears.
Change "RB/72" to "RB/153" at each location where it appears.

3. Sheet No. C6-01 – Landscape Plan AML Site (Option #9)
revise MASTER PLANT LIST for ORNAMENTAL GRASSES as follows:

Key: RB; change TOTAL QUAN. to "9612".
Key: LB; change TOTAL QUAN. to "9720".

4. Sheet No. A3.5-00 – Key Sheet-Laboratory
revise Detail No. 1/A3.5-21 SEGMENTED BENCH as indicated on attached Amendment Drawing No. AM-4-A3.5-00.1 (07/05/00)

5. Sheet No. A3.5-00 – Key Sheet-Laboratory
revise GENERAL NOTES as indicated on attached Amendment Drawing No. AM-4-A3.5-00.2 (07/05/00)

6. Sheet No. A3.5-04 – Lower Level - East D1 Floor Plan Metrology Laboratory
add notes in Room ME1L32 after "Gas Cylinder Panel (5 Gases)" at two locations to read as follows:

NOT IN CONTRACT

7. Sheet No. A3.5-22 – Details-Laboratory
revise Detail No. 1/A3.5-22 ENLARGED SECTION A OF TYPICAL SERVICE FRAME SUPPORT as indicated on attached Amendment Drawing No. AM-4-A3.5-22.1 (07/05/00)

8. Sheet No. A4.1-05 – South Elevation
delete note "Cast Stone Coping" on Detail 1B/A4.1-05.

9. Sheet No. A7.1-04 – Typical Visitor Corridor Elevations Details Cleanroom Bldg. 215 revise Detail No. 12/A7.1-04 CLNRM VISITOR CORR. PARTIAL Elevation as follows:

Change detail mark from 16/A8.1-01 to 16/A8.1-06.

10. Sheet No. A8.1-05 – Door and Interior, Window Elevation
revise WINDOW ELEVATION "L" as follows:

Delete note which reads "SILICONE BUTT JT TYP."

11. Sheet No. A8.1-05 – Door and Interior, Window Elevation
revise WINDOW ELEVATION "K" as follows:

    1. Delete detail mark 6/A8.1-05.
    2. Delete note which reads; "SILICONE BUTT JT. TYPE."

12. Sheet No.'s F1-01 through F1-05 – Fire Protection Plans
add note 7 under "Fire Extinguisher Layout" which reads as follows:

    7. All fire extinguishers are "Not in Contract".

13. Sheet No. S1-16.1 – Area F Misc. Framing Plans Clean Room
revise COOLING TOWER PLATFORM AND SCREEN WALL FRAMING PLAN as indicated on attached Amendment Drawing No. AM-4-PARTIAL PLAN-S1 (07/10/00)

14. Sheet No. M1-07.2 – Lower Level - West A Distribution Plan Metrology HVAC - Upper Layer revise Plan as indicated on attached Amendment Drawing No. AM-4-1/M1-07.2 (07/05/00).

15. Sheet No. M2-04 - Lower Level, East D Floor Plan Metrology Plumbing:
add 3 Nitrogen (N) and one Lab Vacuum (LR) outlets at the south wall of Room ME1L32, located as shown on Sheet No. A3.5-04 (07/05/00).

16. Sheet No. M3-02 – Lower Level - West B Floor Plan Metrology HVAC Piping
revise Plan as indicated on attached Amendment Drawing No. AM-4-1/M3-02. (07/05/00)

17. Sheet No. M3-02 – Lower Level - West B Floor Plan Metrology HVAC Piping
revise Plan as indicated on attached Amendment Drawing No. AM-4-2/M3-02. (07/05/00)

18. Sheet No. M3-07 – Lower Level - West A Distribution Plan Metrology HVAC Piping revise Plan as indicated on attached Amendment Drawing No. AM-4-1/M3-07 (07/05/00).

19. Sheet No. M3-08 – Lower Level - West B Distribution Plan Metrology HVAC Piping revise Plan as indicated on attached Amendment Drawing No. AM-4-1/M3-08 (07/05/00).

20. Sheet No. M3-08 – Lower Level - West B Distribution Plan Metrology HVAC Piping revise Plan as indicated on attached Amendment Drawing No. AM-4-2/M3-08 (07/05/00).

21. Sheet No. M4-02HP – Lower Level - West A/B Metrology HVAC Piping Part Plan revise Plan as indicated on attached Amendment Drawing No. AM-4-1/M4-02HP (07/05/00).

22. Sheet No. M3-12 – Level One – West G Floor Plan Instrument Labs/Offices HVAC Piping revise Plan as follows:

    At labs IW3L25 & IW3L26, delete extraneous note "3. SEE M6-07 FOR CHILLED WATER SYSTEM-UPS ROOM FAN COIL UNITS DIAGRAM."

23. Sheet No. M4-08H – Lower Level - West A Distribution Plan Metrology HVAC Part Plan revise Plan as indicated on attached Amendment Drawing No. AM-4-1/M4-08H (07/05/00).

24. Sheet No. M4-08H – Lower Level - West A Distribution Plan Metrology HVAC Part Plan revise Plan as indicated on attached Amendment Drawing No. AM-4-2/M4-08H (07/05/00).

25. Sheet No. M4-08H – Lower Level - West A Distribution Plan Metrology HVAC Part Plan revise Plan as indicated on attached Amendment Drawing No. AM-4-3/M4-08H (07/05/00).

26. Sheet No. M4-13 – Level One-F Floor Plan Cleanroom Mechanical Part Plan revise Plan as follows:

    Delete AFD's for P-4A and P-4B.

27. Sheet No. M4-20H – Level Two - West G/H Penthouse Instrument Labs HVAC Part Plan revise duct sizes on Plan as follows:

    Change 600 x 500 RA (adjacent to 2400 x 600 OA duct) to be 600 x 450 RA.
    Change 600 x 500 RA (adjacent to 1000 x 500 RA duct) to be 600 x 350 RA.
    Change 750 x 650 RA DN through floor (transition from 1000 x 500 RA) to be 750 x 550 RA.
    Change 1000 x 650 RA through floor (near AHU-202) to be 900 x 550 RA.

28. Sheet No. M4-25 – Metrology West Mechanical Sections
delete Sheet No. M4-25 in its entirety and replace with attached Sheet No. M4-25. (07/05/00)

29. Sheet No. M4-26 – Metrology West Mechanical Sections
delete Sheet No. M4-26 in its entirety and replace with attached Sheet No. M4-26. (07/05/00)

30. Sheet No. M4-27 – Metrology West Mechanical Sections
revise Section A by changing routing of CLPS, LSWS and LSWR piping and CLPS, SCWS and SCWR pipe sizes (near column line FF.8) as indicated on attached Sheet No. M4-27 (07/05/00).

31. Sheet No. M4-28 – Metrology West Mechanical Sections
revise lower half of Section A as follows:

Delete LSWS piping adjacent to column 20.8. It was incorrectly shown in this section but is actually across service galley as shown on M3-08.

32. Sheet No. M4-29 – Metrology West Mechanical Sections
delete Sheet No. M4-29 in its entirety and replace with attached Sheet No. M4-29. (07/05/00)

33. Sheet No. M8-04 – Mechanical Schedules
revise Silencer Schedule as follows:

For SA-900, change "DP Pa" from 37 to 57 and "ATTENUATION DB" from 14 to 23.
For SA-1500, change "DP Pa" from 42 to 65 and "ATTENUATION DB" from 19 to 31.
For SA-2100, change "DP Pa" from 95 to 67 and "ATTENUATION DB" from 23 to 40.
For SA-301, change "AIRFLOW L/s" from 21090 to 18800 and "DP Pa" from 57 to 43.
For SA-302, change "AIRFLOW L/s" from 2200 to 2290.
For SA-303A, change "AIRFLOW L/s" from 710 to 1120, "DP Pa" from 25 to 38 and "SIZE EA mm H" from 457 to 610.
For SA-303B, change "AIRFLOW L/s" from 710 to 1120.

34. Sheet No. M8-05 – Mechanical Schedules
revise Diffusers, Registers, and Grilles Schedule as follows:

For CD-3 through CD-7, change model numbers from SKBA to read SKFJ.
For LD-1, change model number to read DAMB08*C2N01V.
For LD-2, change DASA to read DAMB.
For R-1, change model number to read SPJB222*07.
For G-1, change model number SPPA200*07 to read SPJB222*07.
For G-2 and G-3, change model numbers to read SPJB2221607

35. Sheet No. M8-06 – Mechanical Schedules
revise Pump Schedule as follows:

For P-4, delete "W/AFD" from Remarks column.
For P-404, add "W/AFD" in Remarks column.

36. Sheet No. E0-04, Lighting Fixture revise Fixture Type B as follows:

Delete fixture detail.

Change description to read "3-LAMP, 1200 mm, DIRECT/INDIRECT, 15-30% DOWN, 50 mm DEEP PERFORATED PARABOLIC LOUVER, 55° PAR / 30° PER CUT-OFF, CABLE MOUNT, STRAIGHT CORD".

Change manufacturer and catalog number to read "LINEAR LIGHTING – E310-B-3-PB2-C, LEDALITE-2526T03PN0422C, PRECISION ARCHITECTURAL LIGHTING – AE8319-4-C-OP-PRPB-FCC-T8-FE".

37. Sheet No. E2-06-OP, Lower Level – F, Floor Plan, Cleanroom Basement Power
revise Plan as follows:

For transformer DT1-2-SS/65.8-1, change designation from "T4" to "T3".

38. Sheet No. E2-07, Lower Level – West A, Distribution Plan, Metrology, Power
revise Plan as follows:

Change eight transformer marks from "DT*-1-FF.8/**.*-1" to "DT*-2-FF.8/**.*-1".

39. Sheet No. E5-08, Single Line Diagram, Substation No. 3, Part 4
revise one-line diagram as follows:

At Metrology West MW1G01 Bus BUS4-2-EE.4/17.5-1, change transformer mark from "DT4-1-EE.4/12.8-2" to "DT4-2-EE.4/12.8-1" and panel mark from "B4-1-EE.4/12.8-2" to "B4-1-EE.4/12.8-1".

40. Sheet No. E0-08 – Lighting Fixture Schedule
revise Fixture Type T1 as follows:

Add under Manufacturer and Catalog No. "Prescolite TV170".

41. Sheet No. E0-07 – Lighting Fixture Schedule
revise Fixture Type L1 as follows:

Add under Manufacturer and Catalog No. "Columbia".

42. Sheet No. E2-11 – Level One-F, Floor Plan, Cleanroom, Power
revise Plan as follows:

1. Pump P-4A, change homerun from DP6-3-SS/61-1-5 to MCC6-12. Delete "(AFD)".
2. Pump P-4B, change homerun from DP6-3-SS/61-1-16 to MCC6-13. Delete "(AFD)".

43. Sheet No. E5-02 – Single Line Diagram, Substation No. 1, Part 1.
revise Plan as follows:

1. Feeder from DP6-3-SS/61-1 to MCC6-3-RR/61-1, change circuit breaker from 400/3 to 600/3. Change feeder mark from 33 to 37.

44. Sheet No. E5-19 – Motor Control Center Schedules
revise MCC Schedule for MCC6-3-RR/61-1 as indicated on attached Amendment Drawing No. AM-4-A/E5-19 (07/07/00).

45. The following drawings are attached:
Revised Sheet No.'s C1-02, C3-01, C4-01, C5-01, C7-02, C8-02, C8-03, C8-04 and C8-05 (07/05/00)
Revised Sheet No. M4-25 (07/05/00)
Revised Sheet No. M4-26 (07/05/00)
Revised Sheet No. M4-27 (07/05/00)
Revised Sheet No. M4-29 (07/05/00)
Amendment Drawing No. AM-4-A3.5-00.1 (07/05/00)
Amendment Drawing No. AM-4-A3.5-00.2 (07/05/00)
Amendment Drawing No. AM-4-A3.5-22.1 (07/05/00)
Amendment Drawing No. AM-4-PARTIAL PLAN-S1 (07/10/00)
Amendment Drawing No. AM-4-1/M1-07.2 (07/05/00)
Amendment Drawing No. AM-4-1/M3-02 (07/05/00)
Amendment Drawing No. AM-4-2/M3-02 (07/05/00)
Amendment Drawing No. AM-4-1/M3-07 (07/05/00)
Amendment Drawing No. AM-4-1/M3-08 (07/05/00)
Amendment Drawing No. AM-4-2/M3-08 (07/05/00)
Amendment Drawing No. AM-4-1/M4-02HP (07/05/00)
Amendment Drawing No. AM-4-1/M4-08H (07/05/00)
Amendment Drawing No. AM-4-2/M4-08H (07/05/00)
Amendment Drawing No. AM-4-3/M4-08H (07/05/00)
Amendment Drawing No. AM-4-A/E5-19 (07/07/00)

C. Part III, Section J.2 LIST OF ATTACHMENTS, Attachment Three - U.S Department of Labor General Decision MD000056, Modification 1 dated May 12, 2000 is replaced by Modification 3 dated July 7, 2000.

D. Questions have been received from potential offerors and are answered in the attached Request and Answer Log

GENERAL DECISION MD000056 07/07/00 MD56
General Decision Number MD000056

Superseded General Decision No. MD990056

State: Maryland

Construction Type:
BUILDING

County(ies):
MONTGOMERY

BUILDING CONSTRUCTION PROJECTS (Does not include single family homes and apartments up to and including 4 stories)

Modification Number	Publication Date
0	02/11/2000
1	05/12/2000
2	06/16/2000
3	07/07/2000

COUNTY(ies):
MONTGOMERY

ASBE0024A 04/01/2000

	Rates	Fringes
ASBESTOS WORKERS/HEAT AND FROST INSULATORS Includes application of all insulating materials, protective coverings, coatings and finishes to all types of mechanical systems. Also the application of firestopping material for wall openings and penetrations in walls, floors, ceilings and curtain walls.	21.87	7.34

ASBE0024B 04/01/2000

	Rates	Fringes
HAZARDOUS MATERIAL HANDLER Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials, whether they contain asbestos or not, from mechanical systems.	12.60	2.47

ELEC0026C 12/06/1999

	Rates	Fringes
COMMUNICATION TECHNICIANS	19.00	3.49

SCOPE OF WORK:

Includes low voltage construction, installation, maintenance and removal of teledata facilities (voice, data and video) including outside plant, telephone and data inside wire, interconnect, terminal equipment, central offices, PABX, fiber optic cable and equipment, railroad communications, micro waves, V SAT, bypass, CATV, WAN (Wide area networks), LAN (Local area networks) and ISDN (Integrated systems digital network).

WORK EXCLUDED:

The installation of computer systems in industrial applications such as assembly lines, robotics and computer controller manufacturing systems.
The installation of conduit and/or raceways shall be installed by Inside Wiremen. On sites where there is no Inside Wireman employed, the Teledata Technician may install raceway or conduit not greater than 10 feet.

Fire alarm work is excluded on all new construction sites or wherever the fire alarm system is installed in conduit.
All HVAC control work.

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* ELEC0026R 02/07/2000

	Rates	Fringes
LIGHTNING PROTECTION TECHNICIANS	17.56	3.25+3%

ELEC0026S 06/05/2000

	Rates	Fringes
ELECTRICIANS (Excluding Communication Low Voltage Wiring and Lightning Protection Wiring)	26.80	5.52 + 3%

ENGI0077Q 05/01/2000

	Rates	Fringes
POWER EQUIPMENT OPERATORS		
Cranes, 35 ton and above	21.59	4.22+a
Boom Trucks	20.42	4.22+a

a. PAID HOLIDAYS: New Year's Day, Inaugural Day, Decoration Day, Independence Day, Labor Day, Martin Luther King's Birthday, Veterans' Day, Thanksgiving Day, Friday after Thanksgiving, and Christmas Day.

IRON0201A 05/01/2000

	Rates	Fringes
IRONWORKERS:		
Reinforcing	20.55	8.40

PAIN0051D 06/16/1999

	Rates	Fringes
GLAZIERS	18.95	5.52

PAIN0051L 06/16/1999

	Rates	Fringes
PAINTERS:		
Brush, Roller, Spray	19.07	5.35

PLUM0005E 09/01/1999

	Rates	Fringes
PLUMBERS:		
Apartment Buildings over 4 stories (except hotels), schools, colleges, and speculative office buildings,		

strip shopping centers, churches, water coolers, room air conditioning units, appliances, packaged ice machines, and light commercial refrigeration and/or air conditioning systems serving a single business in a single story **building** and not to exceed 5 h.p. or tons, self-contained package unit up to and including 5 h.p. or tons.	16.54	4.835
All other work	24.85	7.735

PLUM0602F 08/01/1999

	Rates	Fringes
STEAMFITTERS, REFRIGERATION AND AIR CONDITIONING MECHANICS (Including HVAC Pipe Work):		
Light commercial refrigeration and/or air conditioning systems serving a single business; the air conditioning systems shall not total more than 15 tons and the refrigeration system shall not total more than 7 1/2 tons; apartment buildings over 4 stories with individual units not to exceed 5 tons (excluding split units)	13.00	7.36
All other work	24.71	7.36

ROOF0030X 05/01/2000

	Rates	Fringes
ROOFERS	20.25	5.31

SFMD0669B 01/01/2000

	Rates	Fringes
SPRINKLER FITTERS	23.30	6.45

* SHEE0100B 07/01/1999

	Rates	Fringes
SHEET METAL WORKERS (Including HVAC Duct Work)	24.48	6.41

SUMD1043A 05/12/2000

	Rates	Fringes
BRICKLAYERS	19.39	3.30
CARPENTERS	15.51	1.93
DRYWALL FINISHERS	14.00	0.58
IRONWORKERS, STRUCTURAL	15.82	3.85
LABORERS:		
Unskilled	10.35	1.13
Landscape	9.23	
Mason Tenders, Brick	10.97	.77
Rakers	11.06	0.25
POWER EQUIPMENT OPERATORS:		

Backhoes	16.07	5.26
Excavators	14.50	
Loaders	14.68	4.29
Rollers	13.85	1.75
Screeds	12.22	1.14
TILE SETTERS	17.76	3.00
TILE FINISHERS	12.09	2.32

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR 5.5(a)(1)(v)).

In the listing above, the "SU" designation means that rates listed under that identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION

Type	Amendment	RFI No.	Title	Answer
RFI	00004	00015	Division 08 - Doors	
	The door schedule identifies a large number of doors that are identified as requiring a STC 50 acoustic rating. This reference, however, is only found in one place, Remarks(s) 14 and possibly 15. Traditionally specifications for acoustic doors stipulate both ASTME90-90 and E413-87 certifications. Are these common certification standards required? Additionally, acoustic doors certified as assemblies (door/frame/seals). There is no information available in the specification to fully detail the full range of requirements typically identified for acoustic door supply. For instance, Remark 14 identifies automatic door bottoms on the STC50 doors. Automatic doors bottoms can only be supplied with conventional butt hinge doors. STC 50 doors, however, are supplied with Cam Lift hinges that required fixed (not automatic) door bottoms. Can additional information be supplied?			Refer to Amendment 0003 for revisions to specification section 08100
RFI	00004	00039	Substitution for 790-11 Hot Rubber	
	Preservation & Protection Systems Inc. faxed a request for a Substitution for 790-11 Hot Rubberized Asphalt, Part 2 - Products of spec			Refer to amendment #1, page 6 of 10, item #5.
RFI	00004	00044	Spec 15486	
	Can not find any material description for underground air piping. "Spec 15486-4, para. 2.02.A; compressed air piping at service entrance (from 300mm inside building to 1500mm outside): Same as indicated for outside utilities." There is nothing indicated in Division 2 for underground air piping. What material should be used for this system? Please advise.			Refer to Part A for specification section 02711.
RFI	00004	00049	A3.5-00	
	At the plan view of a typical segmented bench on sheet A3.5-00, there is a note indicating "NO BACKSPLASH @ SEGMENTED TOPS". However, at 1/ A3.5-21, a backsplash with an L-angle support is clearly called out by detail "A". Please clarify.			Refer to Part B for architectural Drawing Revisions, item A-1 (Drawing AM - 4-A 3.5-001)
RFI	00004	00053	Paragraph 2. 10.A.7	
	Paragraph 2. 10.A.7 designates the colors of the epoxy resin tops to be selected from black, gray or white. Please specify which color is to be used at each epoxy resin counter top, fume hood top and shelving elevation.			Color will be selected by COTR from manufacturers standard black, gray , and white colors.
RFI	00004	00055	Sheet A2.5-03	
	On sheet A2.5-03 in room ME1L22, there are notes indicating the mounting height of shelving and cable trays on the overhead service carriers. Most of the overhead service carriers do not have notes indicating the mounting heights of the above items. Do these locations still require shelving and cable trays? If so, what are the mounting heights?			See detail 1/A.5.22. "Dotted" cable trays are not in contract shelving heights are adjustable.
RFI	00004	00056	C6-01,C7-03, and C7-04	
	1) The indicated total quantity of ornamental grasses shown on C6-01 is inconsistent with the spacing specified on the drawings. The spacing specified would require four (4) times the qualtity specified. Please clarify what condition governs. 2) The base bid requires that all excess excavated material be removed from the NIST property and disposed of in a legal manner by the contractor. Option #3 states that excess excavated material will be removed of designated locations on the NIST property for disposal. The quantity of excess material is considerably greater than the quantity indicated on Drawing C7-03 and C7-04. Please clarify if additional material may be placed in the designated disposal areas or must material is excess of the indicated on site disposal area quantities be removed from the NIST property for contractor disposal.			1) To resolve inconsistency between landscape plan and master plant list for ornamental grasses on sheet C6-01. Plan and "Total Quantity" in the Master plan list will be revised to reflect 600mm spacing throughout for grasses RB and LB. Refer to Part B for changes to civil drawings items C-2 and C-3 (sheet C6-01) 2) It is estimated that approximately 43,000m3 is required for back filling on the AML site and that this material would be stock piled on the AML site. If this is not possible, the material could be placed on the two on site disposal areas indicated on sheet C7-03 and removed later for back filling as long as the integrity of the sediment/erosion control systems is not compromised.
RFI	00004	00058	Spec Section 10250	
	Corr-Fac. Corp sent a Substitution for IMS/Johnson, Inc., Spec Section 10250, Article 2.01; A,1B & 2:01; A; 2; D			Corr-Fac accepted as an optional manufacturer.
RFI	00004	00060	16013-3 paragraph 2.09.C	
	Specification section 16013-3 paragraph 2.09.C indicates the electromagnetic shielded rooms are to be connected to the instrument ground busses with a #4/0 cu conductor in 32mm conduit. Drawing E5-14 instrument grounding diagrams show the shields of these rooms to be connected with a #6 cu in 15mm conduit. Which is correct?			Provide #6 copper wire in 15mm conduit.
RFI	00004	00062	West Wall of Room ME1I32	
	Various locations, such as the west wall of room ME1I32, show service fixtures with no fixture number designated (PCSW, PCWR, N, LA, LV). Please provide fixture numbers at these locations.			Refer to Part B for drawings revisions, M2 and M3. These are outlets not fixtures. Also see mechanical drawings stem M-2(sheet M2-04)

Type	Amendment	RFI No.	Title	Answer
RFI	00004	00064	IMS Johnson	
	Please be advised that IMS Johnson appears to be out of business. Please provide contact information for Design and Production and The TW Group. We have been unable to locate these firms.			IMS will be deleted and we are adding three base manufactures They are as follows: 1) Uni Spec, Division of Ancon P Phone: (703) 343-4141 or (312)477-8811 2) ASI American Specialities Inc.Watrous Division Phone: (914) 479-9000 3) Metal Sales and Services Inc. Phone: (610) 444-0100 or (800) 321-7816
RFI	00004	00065	Spec Sections 14300 and 14460	
	1) Reference the Hoist & Crane Schedule (Section 14300). Bridge Cranes (Rail Runways) H-3, H-4, H-5, H-6 and H-7 are supposed to be shown on Drawing A8.1-22. They are not shown. Please advise. 2) Reference the Hoist & Crane Schedule (Section 14300). Bridge Crane (Monorail) H-10 is supposed to be shown on Drawing A8.1-22. It is not shown. Please advise. 3) Reference the Material Handling Lift (Section 14460). The Carriage floor size is 3600mm X 2100mm. Which dimension is the access side?			1) Hoist H-3, H-4, H-5, H-6 have been deleted. Refer to Part A for specification revisions, item 17 (section 14300). Hoist H-7 is shown on detail 2/A8.1-22 as indicated. 2) This comment is incorrect. Hoist H-10 is shown on detail 4/A8.1-22. (HDR to provide reference documentation). 3) Access is from both 2100mm sides refer to details 7/A3.2-07 and 1/A5.2-10.
RFI	00004	00068	Suction Diffusers	
	Sam DeSanto Co. sent a Substitution Request for Suction diffusers, Spec. Section 15510, Paragraph 2.06 C.			Wheatly Suction Diffusers substitution is accepted.
RFI	00004	00069	Triple Duty Valves	
	Sam DeSanto Co. sent a Substitution Request for Triple Duty Valves, Spec. Section 15510, Paragraph 2.09 D.			Wheatly TDV Multi-function Valves substitution is accepted.
RFI	00004	00071	Sump Pumps	
	Sam DeSanto Co. sent a Substitution Request for Sump Pumps, Spec. Section 15451 Paragraph 2.05 A			Zoeller Sump Pumps Substitution request is accepted.
RFI	00004	00072	Air Separators	
	Sam DeSanto Co. sent a Substitution Request for Air Separators, Spec. Section 15510, Paragraph 2.07 A.			Wheatly Air Separators substitution is accepted.
RFI	00004	00073	Expansion Tanks	
	Sam DeSanto Co. sent a Substitution Request for Expansion Tanks, Spec. Section 15510, Paragraph 2.01 A 3a			Wheatly Expansion Tanks substitution is accepted.
RFI	00004	00074	In-Line Pumps	
	Sam DeSanto Co. sent a Substitution Request for In-Line Pumps, Spec. Section 15540, Paragraph 2.04 A.			Weinman In-line Pumps substitution is accepted.
RFI	00004	00075	End Suction Pumps	
	Sam DeSanto Co. sent a Substitution Request for End Suction Pumps, Spec. Section 15540, Paragraph 2.02 A.			Weinman End Suction Pumps substitution is accepted.
RFI	00004	00076	Split Case Pumps	
	Sam DeSanto Co. sent a Substitution Request for Split Case Pumps, Spec. Section 15540, Paragraph 2.03 A.			Weinman Split Case Pumps substitution is accepted.
RFI	00004	00078	Steam Generators	
	Sam DeSanto Co. sent a Substitution Request for Steam Generators. Spec. Section 15815, Paragraph 2.01 A.			Adamson Steam Generators Substitution is accepted.
RFI	00004	00079	In-Line Pumps	
	Sam DeSanto Co. sent a Substitution Request for In-Line Pumps, Spec. Section 15540, Paragraph 2.04 A.			Thrush In-line Pumps substitution is accepted.
RFI	00004	00080	End Suction Pumps	
	Sam DeSanto Co. sent a Substitution Request for End Suction Pumps, Spec. Section 15540, Paragraph 2.02 A.			Thrush End Suction Pumps substitution is accepted.
RFI	00004	00081	Heat Exchangers	
	Sam DeSanto Co. sent a Substitution Request for Heat Exchangers, Spec. Section 15755, Paragraph 2.01 A.			Thrush Heat Exchangers substitution is accepted.
RFI	00004	00083	Sump Pumps	
	Sam DeSanto Co. sent a Substitution Request for Sump Pumps, Spec. Section 15451, Paragraph 2.05 A.			Alyan Sump Pumps substitution is accepted.
RFI	00004	00084	Sump Pumps	
	Sam DeSanto Co. sent a Substitution Request for Sump Pumps, Spec. Section 15451, Paragraph 2.05 A.			Homa Sump Pumps substitution is accepted.

Type	Amendment	RFI No.	Title	Answer
RFI	00004	00085	Condensate Pumps	
	Sam DeSanto Co. sent a Substitution Request for Condensate Pumps, Spec. Section 15540, Paragraph 2.01 A.			Alyan Condensate Pumps substitution is accepted.
RFI	00004	00088	High Purity Water System	
	HydroMax, Inc sent a Substitution Request for High Purity Water System, Spec. Section 15485, Paragraph part 2, 2-10			HydroMax is acceptable as a manufacturer. HydroMax system must meet all of the specified criteria.
RFI	00004	00089	Spec Section 13064	
	GAC Corp. sent a statement stating that Clestra Comp-Aire has been brought by Gordon Inc and would the proper Spec sections to reflect Gordon FG 38.			Added Gordon Inc. as acceptable manufacturer in Section 09515 (type SMC-5) and section 13064, Added MBI Products as acceptable manufacturer in Section 9515 (types SMC - 1,2, and 3). Refer to Part A for changes to specifications, items4,5, and 13 (sections 09515 and 13064)
RFI	00004	00090	Drwg M3-12	
	Drwg M3-12 along Column Line #13, there is only one Note #3 (Typical routing of Process Cooling Water), which refers to Detail 12 on M5-07. This Detail indicates (4) termination points from (2) sets of Galley Branches. This note #3 only points to one set of galley branches. This situation seems to be typical. Does this mean that only half of the detail should used where it points to only one set of Galley Branches? Please advise.			Note 3 is typical for all process cooling water branch run outs.. The branches are only extended to points in labs indicated by a "diamond" with label PCWS/R", e.g IW3I35, IW3I17. When extended, they must use the applicable routing shown in detail 12/M5-07, when no point in a lab is indicated on the M3 drawings, they are not extended and the run outs are capped as shown in detail 7/M5-07.
RFI	00004	00091	Drawing M3-12	
	Drawing M3-12, The locations of the Drawing Note #3, which indicates typical routing of Process Cooling Water, does not correspond with the locations of the PCWS/R termination points indicated on Drawing A3.50-7. Should more Note #3 locations be added to M3-12 to accommadate the PCWR termination points indicated on Drawing A3.5-07? If Please indicate which Galley Branch Connections should be used. Please advise.			Note 3 applies to all process cooling water runouts which are only extended to locations indicated on M3 drawings. DO NOT use A3.5 drawings for PCWS/R. termination points.
RFI	00004	00092	Riser Diagram Dwg's	
	Will Riser Diagram Dwg's be issued for storm drain piping - lab waste and vent or any of the remaining lab services			No additional Riser diagrams will be issued.
RFI	00004	00093	Drawing M3-15	
	Drawing M3-15 shows four (4) Process Cooling Water connection or drops to equipment. Drawings A3.5-12 and A3.5-13, which together cover the same area, show fifty-six (56) Process Cooling water connections or drops to equipment. Which drawings show the proper number of connections or drops?			DO not use A3.5 drawing for PCWs/R termination points. Use only information shown on M3 drawings.
RFI	00004	00097	ME1L32	
	In room ME1L32, there are (2) "GAS CYLINDER PANELS (5 GASES)" indicated on the floor plans. Please provide a specification for these items.			"Gas Cylinder Panel (5 gases)" Add N.I.C. at the end of the note.
RFI	00004	00099	Specifications Section 10625 2.01	
	The specifications (section 10625 2.01 C.1.c) call for some of the partitions to be manufactured with aluminum honeycomb core in lieu of a rigid non-combustible core. As an alternative to aluminum honeycomb construction, panels can be manufactured with gypsum core construction (per 2.01 C.) with the understanding that all top and bottom edges will be covered with aluminum tape to fully encapsulate the core. Additionally, all cut outs within the face of the panel will be taped as well. Is this an acceptable solution.			Proposed gypsum-core panels with taped edges are acceptable in lieu of the specified honey comb-core panels.
RFI	00004	00100	Dimming Controls	
	Commercial Lighting Sales, Inc. sent in a Substitution request for Dimming Control, Spec Section 16512.			This substitution for Sunburst/Collage was approved.
RFI	00004	00101	Low Voltage Controls	
	Commercial Lighting Sales, Inc. sent in a Substitution request for Low Voltage Controls, Spec Section 16512.			This substitution for Quanta Elite has been approved.
RFI	00004	00104	Lighting Fixtures	
	Commercial Lighting Sales, Inc. sent in a Substitution request for Lighting Fixtures, Spec Section 16500.			Type T1 is acceptable.
RFI	00004	00109	Lighting Fixtures	
	Commercial Lighting Sales, Inc. sent in a Substitution request for Lighting Fixtures, Spec Section 16500.			Type L1 is acceptable.

Type	Amendment	RFI No.	Title	Answer
RFI	00004	00113	BACnet	
	Siemens Building Technologies formerly known as Gyr Powers sent a Substitution Request for BACnet Requirements for Controls & Instrumentation, Spec Section 17000, Paragraph 1.05, Appendix A.			Proposal to provide a non-native-BACnet HVAC controls system under BASE BID CLIN #0003 which does not comply with ANSI/ASHRAE Standard 13501995 or which does not provide the BACnet device enumerated in the device profiles in Annex B of GSA Guide to Specifying Interoperable Building Automation and Control Systems Using ANSI/ASHRAE Standard 135-1995 is NOT acceptable. Systems which do not fully meet these requirements may be submitted under Offer Option #15 for provision of a non-native-BACnet system for the base building controls. Refer to Amendment 0003 for further clarification.
RFI	00004	00115	Fans	
	Senco Air Equipment sent a substitution Request for Exhaust and Ventilating Fans, Spec Section 15870, pages 1 -7.			Bayley Centrifugal fans and Jenn Farns are acceptable.
RFI	00004	00116	Spec. Section 03200-par. 2.I	
	1) Please reference specification section 03200-par. 2.01.I. Fiberglass reinforcing bars. We have not been able to locate this material in the drawings. Please confirm that fiberglass reinforcing bars are not required for this project. 2) Regrading the formwork materials for the dome and pans, we have not found any specific references in specification section 03100. We therefore presume that the type of materials used for this work, is left up to the discretion of the contractor.			1) Refer to detail 7/S3-08 2) Adequacy of formwork materials for intended use is the responsibility of the contractor.
RFI	00004	00117	CHRWS/R	
	1) Does the chiller heat recovery water (CHRWS/R) require insulation? 2) Does the tempered water (TW) require insulation? 3) Does the pure water (PW &PWC) require insulation? 4) If the systems do require insulation, what material and thickness?			1) Insulation required per 3.02.B.I.g, spec section 15250-11. 2) Insulation not required. 3) Insulation not required. 4) Insulation not required.
RFI	00004	00118	BACnet	
	Section 1.05 BACnet Data and Communication Requirements reads that the "Operators Workstation must communicate with the various control system components by using the BACnet protocol directly". Sections 2.09 Operator's Workstation, 2.10 Portable Operators' Workstation Software make no mention of this requirement. Are all Operators Workstations, Operators Workstation Software, and Portable Operator's Workstations to communicate exclusively utilizing the BACnet Protocol utilizing BACnet LAN Types as defined in ASHRAE Standard 1995 BACnet?			Written and diagrammatic clarifications contained in Amendment 3 shall take precedence over the specifications, as written, for the requirement for selection of BACnet versus non-BACnet compatible devices for control systems supplied for the AML project. All functionality described in the specifications and subsequent amendments shall be maintained regardless of which combination of BACnet/non-BACnet devices is chosen. Minimum BACnet requirements are defined in ANSI/ASHRAE Standard 135-1995 and its Addenda. BACnet device functionality is to be as enumerated in the device profiles in Annex B of GSA Guide to Specifying Interoperable Building Automation and Control Systems Using ANSI/ASHRAE Standard 135-1995.
RFI	00004	00119	BACnet	
	Section 1.05 B native BACnet System Requirements states that "All native BACnet control systems shall meet the BACnet System minimum requirements ... BACnet building Controllers (B-BC) Shall reside on the building control system backbone ISO 8802-3 (Ethernet) network....BACnet Application Specific Controllers may reside on any BACnet LAN Type. Sections 2.07 Digital Control Panels (DCP), 2.08 Modem Communication, 2.11 DCP, HAC and Operator's Workstation Communication Software, and 2.13 Digital Control Panel Software make no mention of these requirements. There is no product specification for either a B-Bc or a B-ASC. Is every Direct Digital Controller, DCP or HAC or B-BC, B-ASC, on this project to communicate utilizing the BACnet Protocol utilizing BACnet LAN Types as defined in ASHRAE Standard 195 BACnet?			Written and diagrammatic clarifications contained in Amendment 3 shall take precedence over the specifications, as written, for the requirement for selection of BACnet versus non-BACnet compatible devices for control systems supplied for the AML project. All functionality described in the specifications and subsequent amendments shall be maintained regardless of which combination of BACnet/non-BACnet devices is chosen. Minimum BACnet requirements are defined in ANSI/ASHRAE Standard 135-1995 and its Addenda. BACnet device functionality is to be as enumerated in the device profiles in Annex B of GSA Guide to Specifying Interoperable Building Automation and Control Systems Using ANSI/ASHRAE Standard 135-1995.
RFI	00004	00120	Drawing M7-02	
	Drawing M7-02 Sequences 8 &8a show HAC (High Accuracy Controller) only on Branch Duct control loops not on local control loop at the Air Handling Units. Does that indicate that these Branch Duct Control Loops are the only applications for these AHUs that require the High Accuracy Controllers, Valves and Sensors, or are all control loops for these AHUs to be controlled with High Accuracy Controllers, Valves and Sensors?			AHU's utilizing Sequences 8 and 8A supply only branch duct control loops serving high accuracy labs. HAC (High Accuracy Controllers) will be required on branch duct control loops and local control loops at the air handling units to achieve the specified accuracy of control.
RFI	00004	00121	Drawing M7.03	
	On drawing M7.03 the diagram for and on page 17000-79 of the specifications the sequence for the Air Terminal Unit +/- 0.25 degC Accuracy is delineated from other Air Terminal Units and denoted to "apply to all laboratories except those specifically designated to have high accuracy control:. Are High Accuracy Valves and Sensors to be used for these Air Terminal Units.			Accuracy of valves and sensors used +/- 0.25C Air Terminal Units is less then that required in +/- 0.01 and +/- 0.01 and +/- 0.1C zones. However, they must be of sufficient accuracy to maintain space temperature within the required accuracy.

Type	Amendment	RFI No.	Title	Answer
RFI	00004	00122	Air Terminal Units	
	Environmental and Power Systems Inc. sent in a Substitution Request for Air Terminal Units.			Enviro-Tec is an acceptable manufacturer of Air Terminal Units.
RFI	00004	00123	Nylon	
	The specified laser screen vendor, Wilson Industries, does not use nylon in their screen material. They use an oxidized polyacrylonitrile (PAN) fiber. Please advise if this is acceptable. If so, they need to know what type of laser equipment they are shielding, inamuch as it has a major impact on pricing. The Class 4 specified is not enough information.			Section 13100 deleted in its entirety by Amendment 4. Laser screens are not in contract.
RFI	00004	00124	Detail 1B/A4.1-05	
	Detail 1B/A4.1-05 indicates a cast stone coping at the elevator overun while details 1 & 3/A5.2-11 show a metal coping. Please clarify.			Provide metal coping - delete note "Cast Stone Coping" at detail 1B/A4.1-05
RFI	00004	00125	Stone Coping	
	The architectural drawing indicate a cast stone coping at the retaining wall while the civil drawing show a cast-in place concrete wall cap. Please clarify.			Comply with architectural drawings (coping is an architectural, not civil, item): Cast stone.
RFI	00004	00126	Vol. III	
	Relating to Vol. III of the specification, Division 15 Mechanical, Section 15250 Mechanical Insulation: Sub-sections 3.04 & 3.05 (Duct Insulation). Exposed round supply air duct on Distribution Level & Mechanical Rooms, is not addressed in the specifications; please advise as to type of insulation & thickness required.			The exposed round supply air duct on distribution Level & Mechanical Rms. is covered by spec. section 15250-15 paragraph 3.05 B.2 because this ductwork is not specified to be cover by non-flexible insulation.
RFI	00004	00127	ANSI/ASHRAE	
	GSA guide to specify interoperable Building Automation and Control Systems Using ANSI/ASHRAE Standard 135-1995, BACnet recommends "4. Specify that all networks shall make use of the BACnet protocol and that all devices supplied shall implement the BACnet functionality enumerated in the device profiles in Annex B (of this guide)". Even though section 17000 1.05 quotes directly from the documentation mentioned above, this section as well as the product specific sections make no mention of BACnet functionality for the following: the Control System in section 2.01 the High Accuracy DDC Temperature Controllers (HAC) in section 2.03 Digital Control Panels in section 2.07 Modem Communication in section 2.08 Operators Workstation in section 2.09 Portable Operators Workstation in section 2.10 DCP, HAC, and Operators Workstation Communication Software in Section 2.11 Operator's Workstation Software in section 2.12 Digital Control Panel (DCP) software in section 2.13 Which of the above mentioned hardware devices are to utilize BACnet LAN tupes for communication?			Written and diagrammatic clarifications contained in Amendment 3 shall take precedence over the specifications, as written, for the requirement for selection of BACnet versus non-BACnet compatible devices for control systems supplied for the AML project. All functionality described in the specifications and subsequent amendments shall be maintained regardless of which combination of BACnet/non-BACnet devices is chosen. Minimum BACnet requirements are defined in ANSI/ASHRAE Standard 135-1995 and its Addenda. BACnet device functionality is to be as enumerated in the device profiles in Annex B of GSA Guide to Specifying Interoperable Building Automation and Control Systems Using ANSI/ASHRAE Standard 135-1995.
RFI	00004	00128	Spec section 17000	
	Specification section 17000 1.05 Native BACnet requirements: states that "All native BACnet control systems shall meet the BACnet minimum requirements." Since there is no product specification for a "Native BACnet control system" nor Bacnet Building Controllers (B_BC) or BACnet Application Specific controllers (B_ASC) what components of the installed system does this paragraph refer to?			Written and diagrammatic clarifications contained in Amendment 3 shall take precedence over the specifications, as written, for the requirement for selection of BACnet versus non-BACnet compatible devices for control systems supplied for the AML project. All functionality described in the specifications and subsequent amendments shall be maintained regardless of which combination of BACnet/non-BACnet devices is chosen. Minimum BACnet requirements are defined in ANSI/ASHRAE Standard 135-1995 and its Addenda. BACnet device functionality is to be as enumerated in the device profiles in Annex B of GSA Guide to Specifying Interoperable Building Automation and Control Systems Using ANSI/ASHRAE Standard 135-1995.
RFI	00004	00129	Spec Section 17000	
	Specification section 17000 1.05 Native BACnet requirements: states that "All native BACnet control systems shall meet the BACnet minimum requirements." Is this reference to the GSA guide to specifying interoperable Building Automation and Control Systems Using ANSI/ASHRAE Standard 135-1995, BACnet Annex B.8 Profiles of the Standard BACnet Devices?			Written and diagrammatic clarifications contained in Amendment 3 shall take precedence over the specifications, as written, for the requirement for selection of BACnet versus non-BACnet compatible devices for control systems supplied for the AML project. All functionality described in the specifications and subsequent amendments shall be maintained regardless of which combination of BACnet/non-BACnet devices is chosen. Minimum BACnet requirements are defined in ANSI/ASHRAE Standard 135-1995 and its Addenda. BACnet device functionality is to be as enumerated in the device profiles in Annex B of GSA Guide to Specifying Interoperable Building Automation and Control Systems Using ANSI/ASHRAE Standard 135-1995.

Type	Amendment	RFI No.	Title	Answer
RFI	00004	00130	ANSI/ASHRAE	
	GSA guide to specifying interoperable Building Automation and Control Systems Using ANSI/ASHRAE Standard 135-1995, BACnet recommends "4. Specify that all networks shall make use of the BACnet protocol and that all devices supplied shall implement the BACnet functionality enumerated in the device profiles in Annex B (of this guide)". Even though section 17000 1.05 quotes directly from the document mentioned above, there is no mention of Bacnet functionality in Specification section 17000 1.04 Design and Performance Criteria. Is this Control and Instrumentation System to make use of the BACnet protocol and that all devices supplied shall implement the BACnet functionality enumerated in the device profiles in Annex B of GSA guide to specifying interoperable Building Automation and Control Systems Using ANSI/ASHRAE Standard 135-1995, BACnet?			Written and diagrammatic clarifications contained in Amendment 3 shall take precedence over the specifications, as written, for the requirement for selection of BACnet versus non-BACnet compatible devices for control systems supplied for the AML project. All functionality described in the specifications and subsequent amendments shall be maintained regardless of which combination of BACnet/non-BACnet devices is chosen. Minimum BACnet requirements are defined in ANSI/ASHRAE Standard 135-1995 and its Addenda. BACnet device functionality is to be as enumerated in the device profiles in Annex B of GSA Guide to Specifying Interoperable Building Automation and Control Systems Using ANSI/ASHRAE Standard 135-1995.
RFI	00004	00131	Dwg E1-16	
	1) Dwg E1-16 keyed note 1 references drawing E1-16OP for lighting under Option #1. There is no sheet listed or issued. Please Advise. 2) Dwg e5-03 shows transformer DTI-2-SS/65.8-1 as a T3. Dwg E2-06-OP shows this transformer as a T4. Which is correct? Are the sizes shown on the one line diagrams correct or the sizes shown on the floor plans? 3) Specification section 16465 specifies bus duct to have a steel housing with a copper internal ground bus. Can a lighter, more compact aluminum housing be used in lieu of steel? Can the standard GE integrated housing ground be provided as it assures an extremely low impedance ground path with less resistance than the internal ground bus bars? 4) DWG. E5-08, Bus 4-2-EE.4/17.5-1 shows the 7th and 8th fused plug feeding the same panel (B4-1EE.4/12.8-2).			1) Delete 2nd sentence of Note 1. 2) T3 is correct 3) Provide separate internal copper ground bus. Aluminum housing is acceptable. 4) Change "-2" to -1"
RFI	00004	00132	Amendment 0003-Attachment 2 1	
	Amendment 0003-Attachment 2 1 Base Price CLIN 0003 Clarifications figure 1. AML BACnet base bid network Architecture shows ASC, Building Controller, and HAC Building Controller interconnected via BACnet ASC LAN. The description describes that the components shall use Native BACnet HVAC control system communications protocol. Product specifications section in 17000 section 2 make no mention of a requirement to either communicate via the BACnet protocol or that communication shall be on BACnet LAN types. Do each of the devices described in the following specification sections communicate using the protocol described in ANSI/ASHRAE Standard 135-1995, BACnet? the Control System in section 2.01 the High Accuracy DDC Temperature Controllers (HAC) in section 2.03 Digital Control Panels in section 2.07 Modem Communication section 2.08 Operators Workstation in section 2.09 Portable Operators Workstation in section 2.10 DCP, HAC, and Operators Workstation Communication Software in Section 2.11 Operator's Workstation Software in section 2.2 Digital Control Panel (DCP) software in section 2.13.			Written and diagrammatic clarifications contained in Amendment 3 shall take precedence over the specifications, as written, for the requirement for selection of BACnet versus non-BACnet compatible devices for control systems supplied for the AML project. All functionality described in the specifications and subsequent amendments shall be maintained regardless of which combination of BACnet/non-BACnet devices is chosen. Minimum BACnet requirements are defined in ANSI/ASHRAE Standard 135-1995 and its Addenda. BACnet device functionality is to be as enumerated in the device profiles in Annex B of GSA Guide to Specifying Interoperable Building Automation and Control Systems Using ANSI/ASHRAE Standard 135-1995.

Type	Amendment	No.	Title	Answer
RFI	00004	33	Amendment 0003-Attachment 2 1	
	Amendment 0003-Attachr figure 1. AML BACnet bas Workstation, Building Con interconnected via BACne Product specification sect requirement to that buildir LAN types Are communication betwe following specification sec ANSI/ASHAE Standard 13 the Control System in sec the High Accuracy DDC T Digital Control Panels in s Modem Communication s Operators Workstation in Portable Operators Work DCP, HAC, and Operator Section 2.11 Operators's Workstation Digital Control Panel (DC	2 1 Base Price CLIN 0003 Clarifications network Architecture shows ASC, BACnet , and HAC Building Controller LAN and a BACnet Building Control LAN. 17000 section 2 make no mention of a trol devices shall communicate on BACnet ilding control devices described in the o be on LAN Types to be as described in 5, BACnet? 01 rature Controllers (HAC) in section 2.03 2.07 2.08 n 2.09 in section 2.10 kstation Communication Software in are in section 2.12 tware in section 2.13	Written and diagrammatic clarifications contained in Amendment 3 shall take precedence over the specifications, as written, for the requirement for selection of BACnet versus non-BACnet compatible devices for control systems supplied for the AML project. All functionality described in the specifications and subsequent amendments shall be maintained regardless of which combination of BACnet/non-BACnet devices is chosen. Minimum BACnet requirements are defined in ANSI/ASHRAE Standard 135-1995 and its Addenda. BACnet device functionality is to be as enumerated in the device profiles in Annex B of GSA Guide to Specifying Interoperable Building Automation and Control Systems Using ANSI/ASHRAE Standard 135-1995.
RFI	00004	34	Amendment 0003-Attachment 2 1	
	Amendment 0003-Attachr Figure 1 shows ASC, BAC and BACnet Workstation. Are the products shown to profiled in Annex B.8 of G Automation and Control S 135-1995, BACnet? Which profiles match up v paragraphs? the Control System in sec the High Accuracy DDC T Digital Control Panels in s Operators Workstation in Portable Operators Works	2 1 Base Price CLIN 0003 Clarifications 1 Building Controller, HAC Building Controller, terpreted as Standard BACnet Devices ide to specifying interoperable Building s Using ANSI/ASHRAE Standard he following product specification 2.01 erature Controllers (HAC) in section 2.03 ion 2.07 ction 2.09 tion in section 2.10	Written and diagrammatic clarifications contained in Amendment 3 shall take precedence over the specifications, as written, for the requirement for selection of BACnet versus non-BACnet compatible devices for control systems supplied for the AML project. All functionality described in the specifications and subsequent amendments shall be maintained regardless of which combination of BACnet/non-BACnet devices is chosen. Minimum BACnet requirements are defined in ANSI/ASHRAE Standard 135-1995 and its Addenda. BACnet device functionality is to be as enumerated in the device profiles in Annex B of GSA Guide to Specifying Interoperable Building Automation and Control Systems Using ANSI/ASHRAE Standard 135-1995.
RFI	00004	00135	Spec. Section 17000 para 1.02 C	
	Specification Section 17000 paragraph 1.02 C states "Only contractors listed below are eligible to provide the High Accuracy Control System". Amendment 3 - Attachment 2 lists 2 contractors and 2 sources of product. Are the limitations for the High Accuracy Control System based on product or on contractor? If contractor is the approved contractor for Honeywell, Inc. and Andover Controls Corp., Inc. the corporation or a local representative? If Product, how can a product that meets the performance specification is section 2.03 High Accuracy DDC Temperature Controllers (HAC) be submitted for approval?			Approved sources for the High Accuracy Controls (HAC) laboratories are based on approved products and approved contractors. Where both Product and Installer are listed, the listed Product is to be installed by the listed Installer. Where no Installer is listed, the Product is to be installed by installers directly employed by the manufacturer, or by an agent licensed by the manufacturer. Each of the listed suppliers/contractors for HAC laboratory controls has been qualified and tested through a cooperative facilities research project between several NIST facilities and scientific divisions. Substitutions for HAC laboratory controls systems are not acceptable.
RFI	00004	00136	Kitchettes	
	Are the kitchettes (UK1 and UK2) all to be 18GA stainless steel? 2) Are any of theses need to meet ADA handicap accessibility requirements?			Section 11460 - Unit Kitchens: 1) Both Types UK-1 and UK-2 are 18 ga. stainless steel (paragraph 2.01.C.1.a applies to all units). 2) See specifications and drawings for drawings for dimensions, clearances and other requirements related to accessibility implications.
RFI	00004	00137	Preformed Wall and Soffit Panels	
	API sent a Substitution Request for Preformed Wall and Soffit Panels, Spec. Section 07413.			Benchmark Architectural Products, Inc. approved as an optional manufacturer for metal wall and soffit Panel System (Section 07413) subject to compliance with all requirements specified and indicated.

Type	Amendment	RFI No.	Title	Answer
RFI	00004	00138	Specification Section 17000	
	Specification Section 17000 paragraph 1.02 B list contractors qualified for General Controls for this project. Paragraph 1.02 C states "Only contractors listed below are eligible to provide the High accuracy Control System. The General controls and Instrumentation Contractor may subcontract this work to an eligible High Accuracy Control System Contractor". That effects - The 4 eligible HAC contractors are competitors of each other and the remaining 4 General Controls Contractors. - The 4 ineligible HAC General Controls Contractors must go to the 4 eligible HAC Contractors for that portion of their Division 17000 proposal. These HAC Contractors are competing for the same Division 17000 contract as the Ineligible HAC General Controls Contractors. - The 4 eligible HAC Contractors control the price that they give to the other 4 ineligible Genereal Control Contractors How are the 4 ineligible General Controls Contractors able to compete when a significant portion of their work is provided to them by their competitition? Can this conflict be eliminated by separating the General Controls from the High Accuracy Controls (48 Laboratory AHUs and Branch Duct control) in the consturctuin documents?			Approved sources for the High Accuracy Controls (HAC) laboratories are based on approved products and approved contractors. Each of the listed suppliers/contractors for HAC laboratory controls has been qualified and tested through a cooperative facilities research project between several NIST facilities and scientific divisions. Substitution for HAC laboratory controls systems are not acceptable.
RFI	00004	00139	Fan Coil Units	
	York International Corporation sent a Substituiton for Fan Coil Units, Spec Section 15850, paragraph 2.01.			York International is an acceptable supplier for Fan Coil Units.
RFI	00004	00141	Air Duct	
	Does the make up air duct require insulation?			Refer to Amendment 0003, Attachment 3, RFI # 00063
RFI	00004	00142	Spec. Section 16110-2.01.D	
	Please refer to specification section 16110-2.01.D.13 - Wiremold the acceptable base manufacturer will not twist the conductors as specified. Is it possible that this requirement be deleted from the specifications? Bear in mind that this requirement if left in place will preclude Wiremold from bidding on this part of project, leaving only the optional manufacturer able to bid. For your information we have attached a copy of wiremold's question sent to us on 7/7/00.			Twisted conductors are required (to reduce magnetic fields).
RFI	00004	00143	drawing A3.5-22	
	Please refer to drawing A3.5-22 Service Frame Details - Are the cable trays and task lights furnished under the contract? Or are they provided by others at hook-up? Please note that the task lights and cable trays are not shown on the electrical drawings.			Cable trays indicated on detail 2/A3.5-22 are not in contract. Task lights are provided under section 11601-2.15.
RFI	00004	00144	Spec. Section 15540-1	
	Chesapeake Systems sent a Substitution request for Pumps and Sump, Sewage Pumps, Spec. Section 15540-1.			Chesapeake Systems substitution for Pumps, Sump, Sewage Pumps is acceptable. Submitted product must meet specified criteria.
RFI	00004	00146	Section M.5 (c)	
	Section M.5 (c) of the solicitation calls for gradually increasing percentages for hubzone subcontractors over a 4 year period. Subcontracts are normally all awarded within a short period of time after the general contract is awarded. A gradual increase in the percentage does not work under this scenario. Please clarify.			Since the Historically Underutilized Business Zone (HUBZone) Program is a relatively new small business program, the goals have been established to encourage federal agencies and their contractors to attain reasonable growth toward the future fiscal year goals. Although most subcontracts may be awarded shortly after the prime contract is awarded, achievement of the goals is based upon when the subcontract dollars are actually expended. Therefore, Offerors need to keep the outyear goals in mind when awarding the subcontracts.